Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW/HW 24: Quadratics Day 2

**Honors Geometry**

1. Calculate the vertex of .
   1. Is the vertex a minimum or a maximum?
   2. Graph the function.
2. Will the graph of have a minimum or maximum? (Determine this without graphing).
   1. Calculate the vertex of the graph.
   2. Graph the equation.
3. A rocket is fired from the ground with an initial velocity of 440 feet per second. Its height *h* after *t* seconds is given by the equation .
4. What is the maximum height the rocket will reach?
5. At what time will the rocket reach its maximum height?
6. Graph the quadratic function .
   1. What are the solutions of the function? (Write them as ordered pairs).
   2. During what interval is the function increasing?
   3. During what interval is the function decreasing?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

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